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RUSTAVI CEMENT PLANT



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RUSTAVI CEMENT PLANT

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RUSTAVI CEMENT PLANT

The Rustavi Cement Plant, probably built since 1950,* is situated on the southeast edge of the Rustavi industrial complex (see orientation map and map of Rustavi, USSR). It occupies an area approximately 3,000 by 1,1000 feet and is completely enclosed with a high wall. The plant uses the wet process in the manufacture of cement.

The following is a description of the probable flow of materials through the plant (numbers in parentheses refer to location numbers on the accompanying flow chart).

Crushed material is brought in by railroad cars and stored in six large silos which are adjacent to a grinding and mixing building (1) located southeast of a tall stack (3)

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In this building the material is pulverized and mixed with water, forming slurry. This sludge-like material is carried to two tanks (2) west of the mixing building where the slurry is mixed and stored. Water for this operation is provided by a probable water-treatment building and two underground water-storage tanks (15) located nearby. From the slurry tanks the mixture moves to the filter building (4), where it is partially dried and fed into two rotary kilns (5). Heat for the kilns is supplied by coal which moves from open storage (13), probably by overhead crane (16), to a coal pulverizing and drying building (14) before being fed to the kilns. In the kilns the partially dried slurry is changed to clinker, which

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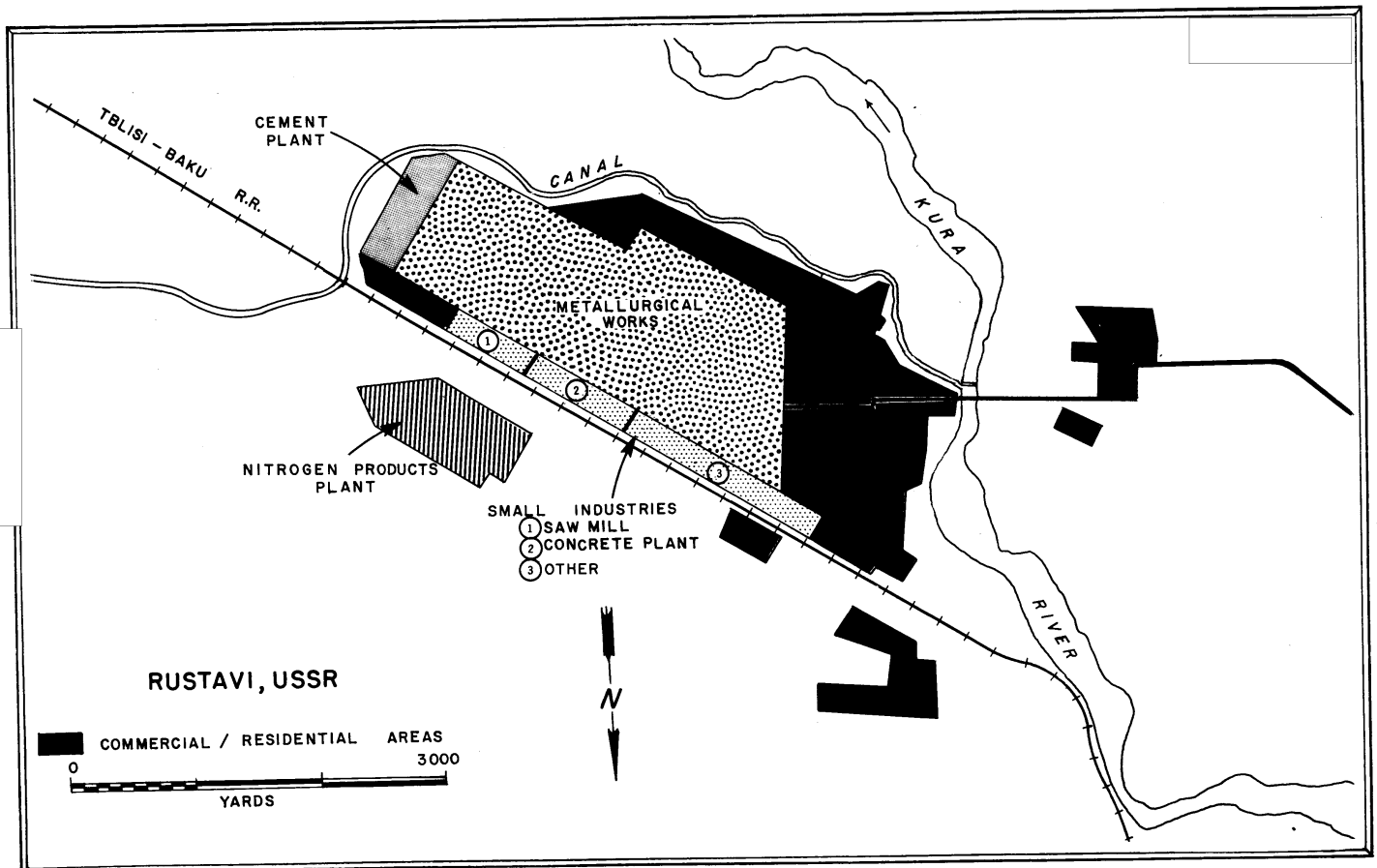
moves into the clinker coolers (6) and then into a clinker storage building (7) at the northeast end of the coolers. From the storage building the clinker is sent to a grinder building (8) where it is mixed with other material and pulverized to become cement. This cement is then moved by conveyor (9) into a packing and shipping warehouse (10) or to storage in one of 14 cement silos (11). A conveyor extends from the packing and shipping warehouse to a small building (12) served by a drive-through road where the cement is probably loaded on the trucks.

The following additional facilities are visible on the west side of the plant: one administration building (17), one large warehouse (18), and one smaller warehouse (18) with possible air vents protruding along the center of the roof. On the east side of the plant there is one large open storage area (19) with numerous crates adjacent to a small warehouse (18). Along the north wall there is one large warehouse (18) and a possible POL storage tank (20). All buildings within the plant area are covered with white dust.

Rail service is provided by two spur lines. One enters from the east and serves all major plant facilities. The other enters from the north, continues along the north wall, and exits on the west side. Approximately 25 railroad cars are visible in the plant area. Transportation facilities also include hard-surfaced roads which are laid out in a rectangular pattern. The plant has only two road entrances, one on the west side and the other on the southeast.

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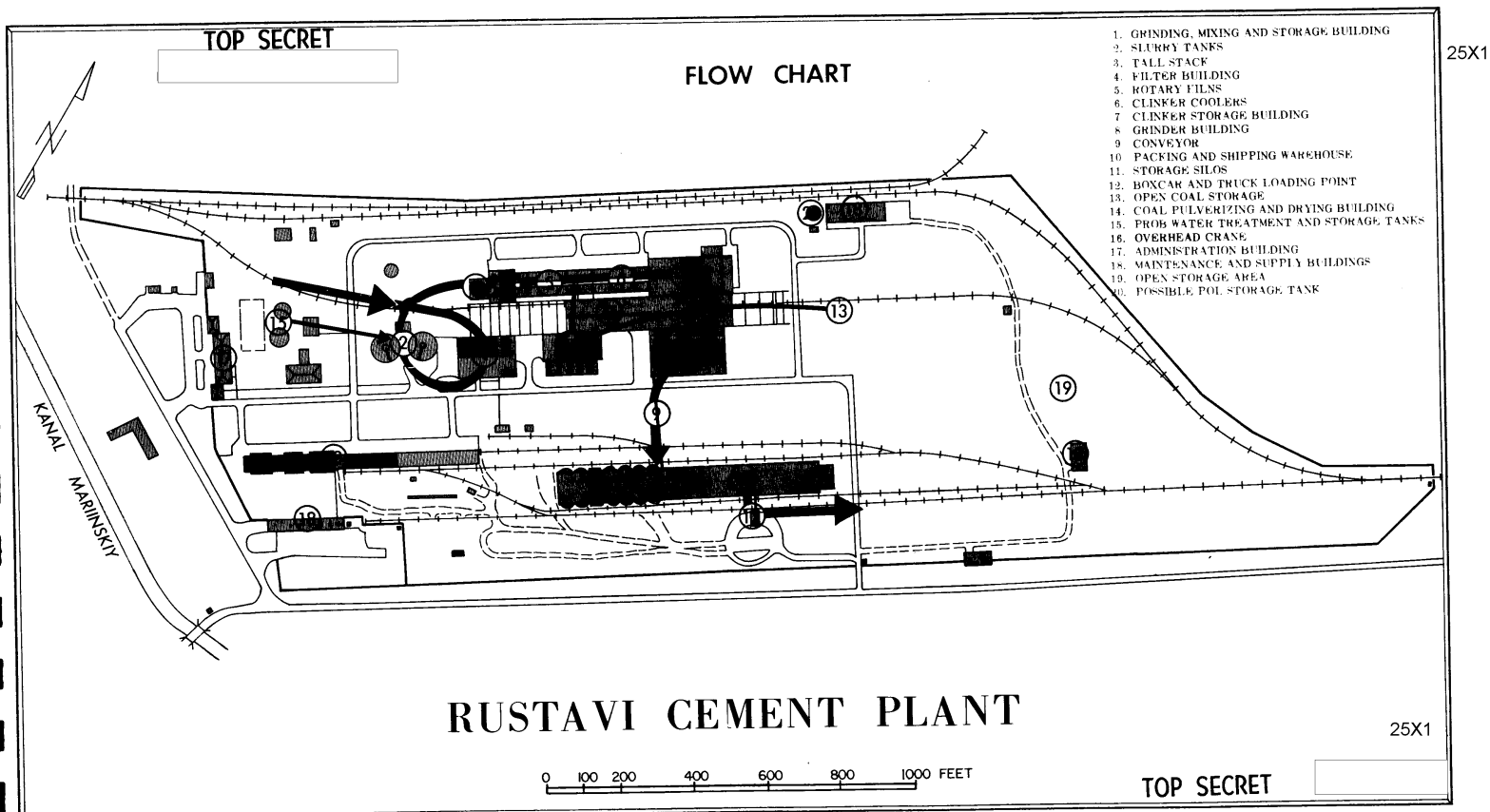
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